

Datasheet for ABIN7549573

MC1 Receptor Protein (AA 1-317) (His tag)



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Overview

Quantity:	1 mg
Target:	MC1 Receptor (MC1R)
Protein Characteristics:	AA 1-317
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MC1 Receptor protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MC1R Protein expressed in mammalian cells.
Sequence:	<p>MAVQGSQRRRL LGSLNSTPTA IPQLGLAANQ TGARCLEVSI SDGLFSLGL VSLVENALVV</p> <p>ATIAKNRNLH SPMYCFICCL ALSDLLVSGS NVLETAVILL LEAGALVARA AVLQQLDNVI</p> <p>DVITCSSMLS SLCFLGAIAV DRYISIFYAL RYHSIVTLPR ARRAVAAIWV ASVVFSTLFI</p> <p>AYYDHSVAVLL CLVVFFLAML VLMAVLYVHM LARACQHAQG IARLHKRQRP VHQGFGLKGA</p> <p>VTLTILLGIF FLCWGPFFLH LTLIVLCPEH PTCGCIFKNF NLFLALIICN AIIDPLIYAF HSQELRRTLK</p> <p>EVLTCSW Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MC1 Receptor (MC1R)
Alternative Name:	MC1R (MC1R Products)
Background:	Melanocyte-stimulating hormone receptor (MSH-R) (Melanocortin receptor 1) (MC1-R),FUNCTION: Receptor for MSH (alpha, beta and gamma) and ACTH (PubMed:1325670, PubMed:8463333, PubMed:1516719, PubMed:11442765, PubMed:11707265). The activity of this receptor is mediated by G proteins which activate adenylate cyclase (PubMed:1325670, PubMed:11707265, PubMed:16463023, PubMed:19737927). Mediates melanogenesis, the production of eumelanin (black/brown) and pheomelanin (red/yellow), via regulation of cAMP signaling in melanocytes (PubMed:31097585). {ECO:0000269 PubMed:11442765, ECO:0000269 PubMed:11707265, ECO:0000269 PubMed:1325670, ECO:0000269 PubMed:1516719, ECO:0000269 PubMed:16463023, ECO:0000269 PubMed:19737927, ECO:0000269 PubMed:31097585, ECO:0000269 PubMed:8463333}.
Molecular Weight:	34.7 kDa
UniProt:	Q01726

Target Details

Pathways: [cAMP Metabolic Process](#), [Feeding Behaviour](#)

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months